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G#ÿÿ####ÿÿ#####ÿ□#ÿÿd######0##d#########T### PRESENTED
BY: DSDC For additional information EMAIL:
sepg@dsdc.dla.mil

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#######v###d#########d#########F###Welcome Introduce yourself and where you are
within the Organization
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K#ÿÿ####ÿÿ#####ÿu#ÿÿd#########d#########□###Define Configuration Management and
discuss its application in developing softwareIdentify the four basic areas of
Configuration ManagementUnderstand the benefits of utilizing Configuration
Management practicesUnderstand and list the risks of NOT implementing
Configuration Management techniquesGain a Working Knowledge of the DSDC CM Policy
and Guidance for Software Development
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###ÿÿ#####ÿw#ÿÿd#########d#########□###Review Topics - stress that presentation will place emphasis on the last three topics:CM Roles and ResponsibilitiesDSDC CM Policy and GuidanceChallenges#

###ÿÿ#####ÿw#ÿÿd#########d#############Configuration Management (CM):Disciplined Approach to Change ControlEnsures Integrity of BaselinesCreates Environment for Informed DecisionsConfiguration Management is NOT:Project PlanningProject Tracking BudgetingSchedule DrivenTool DrivenTotal Solution

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###ÿÿ#####ÿw#ÿÿd#########d#########c###Simple CM is the control and management of baselines.IEEE Std 610.12   A discipline applying technical and administrative direction and surveillance to: identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, and verify compliance with specified requirements.EIA IS-649: A management process for establishing and maintaining consistency of a product□s performance, functional, and physical attributes with its requirements, design and operational information throughout its life.Baseline: a. A specification or product that has been formally reviewed and agreed upon, that thereafter serves as the basis for further development, and that can be changed only through formal change control procedures.   b. A document or set of such documents formally designated and fixed at a specific time during the life cycle of a configuration item. [IEEE Std 610.12]IEEE - The Institute of Electrical and Electronics EngineersEIA - Electronic Industries Association4

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###ÿÿ#####ÿv#ÿÿd#########d#########Á###Identification - What are we building?
Control - How are changes controlled?Status Accounting - How is the item
documented and its status communicated?Audits - How are requirements verified?n
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#######v###d#########d#########¤###CONTROLLING TOOL: CM will assure we know
      1. What we are supposed to build         2. What we are building
      3. What we have builtVISIBILITY TOOL:    CM will provide        1.
Assistance in Project Management         2.  Impact of changes, both cost and
scheduleCOST-SAVING TOOL:    CM will provide        1.  History for future
estimates         2.  Improved ability to determine impact of changes
(people, time, training needs)
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      s#ÿÿ####ÿÿ#####ÿM#ÿÿd#########d#########¾###Not Delivering Product that
Meets Customer RequirementsProjects Over Budget/Not on TimeNo Control of ChangesNo
Visibility to Impact of ChangesCannot Sustain CMM Level 2 / Not Competitive
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###ÿÿ#####ÿv#ÿÿd#########d#########Þ###SEI SPA consequences of not doing CM at DSAC 1. Configuration of some software in the field is unknown 2. Software configuration integrity is compromised on some tiers   - Source code control is poor   - Test procedures and test beds are not controlled   - User and project document is not released with software   - Requirement test coverage is rarely analyzed   - Consistent and stable release procedures are lacking   3. Problem report and change request tracking is lacking

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      s#ÿÿ####ÿÿ#####ÿ¯#ÿÿd#########d#########å###Making changes in an orderly
mannerMinimizing disruption to existing users and developersEnsuring
interoperabilityGetting documentation and code to agreeProviding an archive for
recoveryProviding data for process improvementl
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########ÿÿd#########d###########DSDC CM Policy States:For Every Software
Project, an Individual Shall Be Assigned by the Director of Release and
Configuration Management to Be Responsible for All CM ActivitiesCM of All DSDC
Software Products Will Be Done in Accordance With Industry StandardsSystem Life
Cycle Documentation Shall Be Prepared in Accordance With Military Standards
Periodic CM Audits Will Be Conducted#
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###ÿÿ#####ÿw#ÿÿd#########d#########´###Review PolicyCM Policy is located in two places within the DSDC Project Manager's Guide to Implementing CMM Level 2Policy Section - Tab ACM Guidance Section - Tab C, Enclosure 2

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      s#ÿÿ####ÿÿ#####ÿÜ#ÿÿd#########d#########å###DSDC CM Guidance Provides:
General Information on the Four Areas of CMSample Charters for Establishing
CCBs/SCCBsGuidelines for Selection of Potential Configuration ItemsCM
Baseline/Milestone Tailoring GuideCM/SCM Procedures2
```

###ÿÿ#####ÿw#ÿÿd#########d#########¤###Review each itemDSDC CM Guidance (DSDCI 8120.001) is on quarterly update scheduleAnticipate and welcome comments and suggestions for improvement as well as correctionsUse Change Form - SEPG Feedback Form in front of DSDC Project Managers Guide to Implementing CMM Level 2Contact Jennifer Scranton (DSN 850-8196) or Mark Metzner (DSN 986-5681 x313)Review contents and location of :General Information on the Four Areas of CM - Tab C, para ESample Charters for Establishing CCBs/SCCBs - Tab C, Encl 3Guidelines for Selection of Potential Configuration Items - Tab C, Encl 5CM Baseline/Milestone Tailoring Guide - Tab C, Encl 8CM/SCM Procedures - Tab C, Encl 10 - 16

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###FOUR AREAS OF CM   CM GUIDANCE ENCLOSURES   (TAB
C)Configuration Identification   CM/SCM Plan Procedure
      Generic SCMP Template   Guidelines for Selection of
CIs   CM Baseline/Milestone Tailoring GuideConfiguration
Control   CM/SCM Change Procedure   CM/SCM Baseline
Procedure   CM/SCM Release Procedure
      Subcontractor Support Change ProcedureConfiguration Status
      Configuration Status Accounting andAccounting   Reporting
Procedure   CSA Reporting GuideConfiguration Audit
      SCM Audit Procedure

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Second LevelThird LevelFourth LevelFifth Level
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and CMM##########Configuration Management##########DSDC-
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